

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. - 27. (Canceled)

28. (Canceled)

29. (Currently Amended) ~~The electronic device of Claim 28 wherein~~ An electronic device supporting both battery identification and communication of data over an interface between a battery and the electronic device, comprising:

a resistor having a resistance value;

a processor configured to calculate a resistance in the battery responsive to the resistance value and a voltage drop across the resistor, wherein the processor further determines whether the battery is capable of at least one of receiving and transmitting additional information based on the resistance in the battery;

circuitry for enabling communication of data between the processor and the battery, wherein the circuitry for enabling communication of data, further comprises:

a transceiver for transmitting and receiving serial communication of data between the electronic device and the communications circuitry of the battery;

a first register for holding data to be transmitted by the transceiver; and

a second register for holding data received by the transceiver.

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Currently Amended) ~~The method of claim 30, further including the step of~~
A method enabling both battery identification and communication of data over an
interface between a battery and an electronic device, comprising the steps of

attempting to communicate data to the battery from the electronic device via a
serial connection responsive to a connection between the battery and the electronic
device;

selectively switching a resistor in the electronic device between system voltage
and a communications pin if the electronic device may not communicate data to the
battery;

determining a first resistance value in the battery responsive to the impedance in
the electronic device; and

attempting to communicate with the battery from the electronic device prior to the
step of selectively switching.

35. (Currently Amended) ~~The electronic device of claim 28, An electronic~~
device supporting both battery identification and communication of data over an
interface between a battery and the electronic device, comprising:

a resistor having a resistance value;

a processor configured to calculate a resistance in the battery responsive to the
resistance value and a voltage drop across the resistor;

wherein the processor further determines whether the battery is capable of
at least one of receiving and transmitting additional information based on the
resistance in the battery; and

wherein if the resistance in the battery is above a predetermined
threshold, then the battery is a smart battery; and
circuitry for enabling communication of data between the processor and the
battery.

36. (Currently Amended) ~~The electronic device of claim 28;~~ An electronic device supporting both battery identification and communication of data over an interface between a battery and the electronic device, comprising:

a resistor having a resistance value;

a processor configured to calculate a resistance in the battery responsive to the resistance value and a voltage drop across the resistor,

wherein the processor further determines whether the battery is capable of at least one of receiving and transmitting additional information based on the resistance in the battery; and

wherein if the resistance in the battery is below a predetermined threshold, then the battery is a dumb battery; and
circuitry for enabling communication of data between the processor and the battery.